

Statement of Work-Objectives

Project Title: Quantum Fuel Systems Technologies Worldwide, Inc. – Solar PV Module Manufacturing Plant
Project Address: 17872 Cartwright Road
Irvine, CA 92614
Solicitation Number: DE-FOA-0000052

Quantum Fuel Systems Technologies Worldwide, Inc. (“Quantum”) will be using \$4,356,500.00 of federal ARRA-SEP funds awarded from the California Energy Commission to purchase the following equipment:

- Pre-wash Glass Buffer
- EVA (ethylene-vinyl-acetate) Applicator
- Post Glass Washer Buffer
- Array Completion and Soldering station
- EVA and Back Sheet Layup station
- Final Panel Buildup and Inspection station
- Glass Washer
- Stringer/Tabber Machine
- Vacuum Laminators
- Solar Output Measurement
- Packaging Station
- Repair Station
- Storage Racks, Lift Trucks, Control Software, Office Furniture, Computer Hardware

The \$4,356,500.00 in funding is part of a larger \$15,000,000.00 project, with the remainder paid for with leverage funding by other sources, to expand a solar photovoltaic module plant to an annual capacity of 45 MW. The City of Sunnyvale Planning Department says the manufacturing plant is permitted by right. Quantum will not be expanding the building footprint, however, the project will require non-discretionary building permits for tenant improvements to the building.

According to the GO-EF1 form filled out by the applicant, there are no notable waste streams generated by the project.